International application No.

PCT/US05/06697

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A61K 31/395, 31/505; C07D 215/16, 239/95.  US CL : 514/266.21, 266.4, 232.8, 299; 544/116, 230, 231, 284 and 293.  According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/266.21, 266.4, 232.8, 299; 544/116, 230, 231, 284 and 293.					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAPLUS and EAST					
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.		
Y	US 5,034,393 (HACKLER et al) 23 July 1991 (23.07	7.1991), columns 1-2, formula I.	12-16, 26-28 and 40-42		
	•		*****		
A	US 5,436,233 A (LEE et al) 25 July 1995 (25.07.1995), columns 4-6.		12-16, 26-28 and 40- 42.		
A	US 5,326,766 A (DREIKORN et al) 05 July 1994 (05.07.1994), columns 1-2.		12-16, 26-28 and 40- 42.		
			*****		
A	US 5,112,817 A (FUKAZAWA et al) 12 May 1992 (12.05.1992), columns 1-4.		12-16, 26-28 and 40- 42.		
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A	US 4,694,000 A (TIMMERMAN et al) 15 September 1987 (15.09.1987), column 1.		12-16, 26-28 and 40- 42.		
	documents are listed in the continuation of Box C.	See patent family annex.			
<ul> <li>Special categories of cited documents:</li> <li>"T" later document published after the international filing date or prior date and not in conflict with the application but cited to understan particular relevance</li> <li>document defining the general state of the art which is not considered to be of particular relevance</li> </ul>		tion but cited to understand the			
·	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to invention an inventive step when the document is taken alone				
	which may throw doubts on priority claim(s) or which is cited to ne publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is			
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such o being obvious to a person skilled in the			
"P" document priority da	published prior to the international filing date but later than the te claimed	"&" document member of the same patent fa	J		
Date of the actual completion of the international search  Date of mailing of the international search report					
25 May 2005		1 & JUL 2005.	<u> </u>		
	ling address of the ISA/US	Authorized officer January	dern f		
	Stop PCT, Attn: ISA/US missioner for Patents	James O Wilson			
P.O.	Box 1450 andria, Virginia 22313-1450	Telephone No. 571-272-1600			
Facsimile No. (703) 305-3230					

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ategory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
A	US 4,352,928 A (HIRANUMA et al) 05 October 1982 (05.10.1982), columns 1-2.	12-16, 26-28 and 42.
A	US 3,971,783 A (BARNISH et al) 27 July 1976 (27.07.1976), columns 1-2.	12-16, 26-28 and 42.
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: 49-96 because they relate to subject matter not required to be searched by this Authority, namely: Please See Continuation Sheet		
2.	Claims Nos.: 1-11,17-25,29-39 and 43-48 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet		
3.	Claims Nos.: 52-61, 63, 65-67, 69-71, 73-79, 81, 83, 85, 87 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This Internati	ional Searching Authority found multiple inventions in this international application, as follows:		
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. Remark on l	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.		

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

Box II Observations where certain claims were found unsearchable 1. because they relate to subject matter not required to be searched by this Authority, namely:

Claims 49-50 are drawn to a pharmaceutical composition. Claims 51-96 are drawn to various methods of treatment or use. The search has been carried out and based on the alleged effects of the compound.

### Continuation of Box II Reason 2:

Claims 1, 17, and 32 are independent claims drawn to compounds of a bicyclic system substituted with a ring containing  $A_1$ - $A_5$ . Variables  $A_1$ - $A_5$  are defined in term of N or  $CR_a$ . Variable  $R_a$  is defined in terms of hydrogen,  $R_b$  and "groups that are taken together with an adjacent  $R_a$  to form a...ring." It is unclear what "groups" are taken together. Furthermore,  $R_a$  can also form a ring with  $R_3$ , and thus, it is unclear if a tricyclic system is also intended for the fused ring containing  $A_1$ - $A_5$ . Because of the ambiguity in the definitions of  $R_a$ , and  $A_1$ - $A_5$ , and the uncertainty in the number of rings, no meaningful search can be carried out for the compounds recited in claims 1, 17 and 32.

Claims 2-11, 18-25, 29-31, 33-39, 43-48 depend on claim 1, or 17 and/or 32 for the definition of  $R_a$ , and the ring containing  $A_1$ - $A_5$ , and thus, the compounds recited in said claims cannot be searched either.

Claims 52-61, 63, 65-67, 69-71, 73-79, 81, 83, 85, 87 are improper multiple dependent claims.